

THE ASSOCIATION OF MANITOBA LAND SURVEYORS

RULES AND REGULATIONS

OF THE

BOARD OF EXAMINERS

SUBJECTS OF THE EXAMINATIONS

AND

EXTRACTS FROM THE STATUTES

RELATING TO THE

EXAMINATION AND ADMISSION

OF

MANITOBA LAND SURVEYORS

WINNIPEG, MANITOBA

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BOARD OF EXAMINERS
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1. Before each meeting the examination papers will be prepared by the Board, and will be printed or typewritten.

2. The examination sittings shall commence each day at 9.30 a.m., continue until 12.30 p.m., recommence at 2.00 p.m., and continue until 5.00 p.m., day by day, until completed.

3. There will be one separate set of questions for each sitting. All the papers will be collected at the close of each sitting, and candidates will be held to have failed in any not answered at that time.

4. Any candidate obtaining assistance, during the hours of examination, by copying the papers of another candidate, or otherwise, will at once be dismissed, and any candidate who shall permit such copying or give such assistance, will be considered equally guilty and treated similarly.

5. Each sheet of paper shall bear at the top the subject, number of question and name of candidate, shall be written on one side only, and not more than one answer shall be written on the same sheet of paper

6. The candidate shall not write on one line more than one step in geometrical or algebraic work. A single step may cover several lines, but two or more should in no instance be put on the same line.

7. No books or diagrams of any kind, except those allowed by the Board, shall be brought into the examination room.

8. Candidates are to present themselves punctually at the hours appointed for the commencement of the examinations, and no candidate will be allowed to enter the examination room later than fifteen minutes after that time, nor will any candidate be permitted to leave the room during a sitting, but as soon as he has finished his papers he may hand them to the examiner, after which he will not be allowed to re-enter until the next sitting.

9. In examining the papers of candidates each answer if perfectly correct, will be given the full number of marks allowed to it; if partly correct and partly wrong, such proportion of the total number of marks as the correct part of the answer bears to the whole question; and if entirely wrong, no marks; and no candidate will be admitted unless he has obtained the number of marks specified in the schedules herewith.

10. A candidate rejected by the Board shall not be entitled to a new examination before the next regular meeting of the Board.

11. Surveyors coming for examination under the provisions of Section 27A of the Land Surveyors' Act, shall submit to the Board evidence that they have served under articles the term required by the Act, when giving the notice prescribed by Section 25 of said Act, and shall submit their diplomas or commissions or certificates to the Board prior to writing on any examination.

12. Apprentices, articted to any Manitoba Land Surveyor under the provisions of Section 27B, or Sub-sections 1 and 2 of Section 28 of the Land Surveyors' Act, shall submit to the Board their diplomas, commissions or certificates, along with their Articles of Apprenticeship, as prescribed by Section 24 of said Act.

13. Each candidate for Examination for Admission to Practice shall bring with him a Transit instrument which he shall submit to the Board for their examination and approval, and he shall also submit a plan and field notes of a survey, all made by himself, which will be filed with the papers in practical surveying.

14. Candidates for Admission to Practice must submit to the Board as least seven days before the examination, Surveyor's certificate of service; failure to submit the same will render a candidate liable to forfeit his fee paid for examination should such certificate be rejected or considered insufficient by the Board.

15. The examiners will not communicate to any person the apparent or presumed results of the examination until the same have been officially announced.

16. Candidates for admission as pupils shall be examined in the following subjects, prescribed in the Statutes of Manitoba 4 and 5, Edward VII., Chap. 48, Sec. 19, and no candidate shall be admitted except as provided in Rule 17, unless he obtains a total of at least 630 marks, and also obtains in each subject at least the the number of marks shown as Pass Minimum in the following schedule:

	No. of Papers	Maximum Marks	Pass Minimum	Supple- mental Minimum
Penmanship.....	1	50	20	25
Orthography and English Gram- mar		200	160	160
Canadian History and Geography	1	100	40	50
Arithmetic and Logarithms	1	100	40	50
Algebra	1	100	40	50
Plane Geometry	2	200	80	100
Plane Trigonometry.....	1	100	40	50
Mensuration of Superficies	1	100	40	50

Time required: four days.

17. A candidate for admission as pupil who obtains at least 630 total marks but fails in one or more subjects to obtain the pass minimum given above, will be permitted at one only of the two next ensuing regular examinations held by the Board to present himself for examination in the subjects only in which he failed, but he will in such case be required to obtain at least the number of marks shown in the above schedule as supplemental minimum, and should he fail to do so he will be required upon again presenting himself for examination to take the full schedule.

18. Candidates for admission to practice shall be examined in the following subjects prescribed in the Statutes of Manitoba, 4 and 5, Edward VII. Chap. 48, Sec. 26, and no candidate shall be admitted except as provided in Rules 19 and 20, unless he obtains

a total of at least 1,050 marks, and also obtains at least the number of marks shown as Pass Minimum in the following schedule.

	No. of Papers	Maximum Marks	Pass Minimum	Supple- mental Minimum
Geometry	1	100	50	60
Algebra	1	100	50	60
Trigonometry (Plane)	1	100	50	60
Trigonometry (Spherical)	1	100	50	60
Astronomy	1	100	50	60
Measurement of Areas and Sub- division of Land	1	200	100	120
Levelling and Curves (Circular or Spiral)	1	100	50	60
Geology, Botany and Mineralogy Elements of, and Forest Flora of Canada	1	100	50	60
Descriptions and Principles of Evidence	1	200	140	140
Dominion Lands' Act, Manuals of Survey, Land Surveyors' Act, Real Property, Special Surveys and Registry Acts.				
Municipal and Mines Acts, Plans Cancellation Act	3	250	190	190
Practical Surveying, including the making of a small Survey in the presence of Examiners, taking field notes, plotting and deter- mining courses of same from an observation, and oral examina- tion on the adjustment and prin- ciples of Instruments.....takes 1 day.		250	150	150

* See Note to Rule 21 below.

19. A candidate for admission to practice, who has at any previous examination, in which he has failed, obtained in any subject at least the number of marks shown as supplemental minimum in the above schedule, may elect upon again presenting himself for examination to be awarded the number of marks so previously obtained in such subject instead of again writing thereon.

20. A candidate for admission to practice, who obtains at least 1,050 total marks, but fails in one or more subjects to obtain the

pass minimum given above, will be permitted at one only of the two ensuing regular examinations held by the Board, or at a special examination, if such is held within one year for any other candidate to present himself for examination in the subjects only in which he failed, but he will in such case be required to obtain at least the number of marks shown in the above schedule as supplemental minimum and should he fail to do so he will be required upon again presenting himself for examination to take the full schedule.

21. Candidates who come under the provisions of Section 27A, of the Land Surveyors' Act, shall be examined in the following subjects, and no candidate shall be admitted unless he obtains at least 75 per cent. of the maximum number of marks therefor.

Dominion Lands Act.

Manuals of Survey.

Real Property Act.

Special Surveyors' Act.

Registry Act.

Mines Act.

Planes Cancellation Act.

Municipal Act.

Land Surveyors' Act.

Descriptions and Principle
of Evidence.

* *Note.*—The attention of Candidates is directed to the fact that in renewing lost corners and boundaries within the Province, the provisions of the Dominion Lands Act apply only to lands the title to which is vested in the Crown in Right of Canada. With regard to other lands any deficiency or surplus should be apportioned equitably in accord with original surveys.

Programme of Subjects of Examination for Admission as Pupil.

PENMANSHIP, ORTHOGRAPHY and ENGLISH GRAMMAR.

A subject will be given upon which the candidate is to write a composition of not less than 500 words.

For each error in orthography and in the fundamental rules of grammar in the paper thereon a deduction of five marks will be made, and account will be taken of orthographical and grammatical errors in all the papers.

CANADIAN HISTORY TO PRESENT TIME.

GEOGRAPHY.

General, with special reference to Canada.

Physical

ARITHMETIC and LOGARITHMS.

Greatest common measure and least common multiple.—Vulgar and decimal fractions.—Measures of length, capacity, area, weight, time, and currency.—Square and cube root.—Use of logarithmic tables.—Multiplication, division, involution and evolution by logarithms.

ALGEBRA.

Elementary rules.—Highest common divisor.—Lowest common multiple.—Factoring.—Simplification of expressions.—Fractions.—Simple equations of one, two or more unknown quantities.—Quadratic equations and equations solved like quadratics.—Problems depending for their solution upon algebraic equations.

PLANE GEOMETRY.

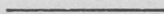
EUCLID'S ELEMENTS:—First four books.—Proofs of the propositions.—Questions as to the propositions, their practical applications, and the arithmetical or algebraic propositions corresponding to those propositions which relate to lengths of lines or areas.

PLANE TRIGONOMETRY.

Measures of angles and arcs.—The trigonometric ratios.—Fundamental formulæ.—Signs of trigonometric tables.—Use of the tables.—Solution of plane triangles: right angled and oblique.—Problems depending upon the foregoing.

MENSURATION OF SUPERFICIES.

Areas of rectilineal figures, and of figures bounded by arcs of circles.—Areas of surfaces of right circular cones, circular cylinders, spheres, prisms, pyramids, and parallelopipeda.



Programme of Subjects of Examination for Manitoba Land Surveyor

GEOMETRY.

First four and sixth books of Euclid's Elements and the definitions of the fifth.—Proofs of the propositions and of deduced propositions.—Questions on the propositions.—Application of geometry to plotting, and to surveying without angular instruments.—The eleventh book of Euclid's Elements. Definitions, proofs and applications of the propositions.—The volume of solid bodies bounded by plane, spherical, conical, or cylindrical surfaces.

ALGEBRA.

Solutions of equations of the first and second degree of one or more unknown quantities.—Inequalities.—Involution and evolution.—Surds and imaginary quantities.—Proportion and progression.

PLANE TRIGONOMETRY.

Measures of angles and arcs.—The trigonometric ratios.—Fundamental formulæ.—Signs of trigonometric ratios.—Trigonometric functions of small arcs.—Inverse trigonometric functions.—Trigonometric tables, natural and logarithmic.—Use of the tables.—Transformation of trigonometric expressions.—Solution of trigonometric equations.—Solution of triangles.

SPHERICAL TRIGONOMETRY.

Great and small circles of the sphere.—Angles between great circles.—Propositions relating to the angles made by three or more planes passing through one point, and to the plane angles made by their lines of intersection.—Connection between these angles and the angles and sides of figures on a spherical surface bounded by arcs of great circles.—General propositions relating to the angles and sides of spherical triangles.—The polar triangle.—Proof of the fundamental formulæ connecting the sides and angles of a spherical triangle.—Deduction of the formulæ for the solution of right-angled

quadrantal, and oblique-angled triangles.—The conditions of ambiguity of solution of spherical triangles.—Solution of given triangles and problems depending for their solution upon spherical trigonometry.

ASTRONOMY.

The celestial sphere.—Spherical co-ordinates, altitude and azimuth, declination and hour angle, declination and right ascension, celestial latitude and longitude.—Co-ordinates of the observer's position.—Numerical expression of hour angles in time and arc.—Application of spherical trigonometry to the transformation from one system to another.—Solution of astronomical triangle.—Time: Sidereal and solar day; apparent and mean solar time; equation of time; astronomical and civil time; standard and meridian time; transformation of one kind of time into another.—The use of the Ephemeris or Nautical Almanac.—Simple interpolation.—Astronomical refraction, tables of refraction, variations of refraction with the pressure and temperature of the atmosphere.—Corrections to be applied to the observed altitude of the sun, or a star.—Calculation of the latitude of a place from an observation of the meridian altitude of the sun or a star.—Calculation of the local time and the azimuth from an observed altitude of the sun or a star.—Calculation of the direction of the meridian from an observation of a circumpolar star at its greatest elongation, or at any hour angle.

Candidates will be expected to take these observations for time, latitude and azimuth, practically, with an instrument in the presence of the Board.

MEASUREMENT OF AREAS and DIVISION OF LAND.

Division of land in the form of triangles, quadrilaterals, or other rectilinear figures into parts in a given ratio, by straight lines drawn according to any given law.—Problems on the partition of land and the rectification of boundaries.—Measurement of areas bounded by crooked or curved boundaries.—Measurement of areas by division into triangles.—Measurement of the area included by a traverse by means of latitudes and departures.—Balancing the traverse.—Supplying lost distances and bearings.

LEVELLING.

Principles of.—Use and adjustment of instrument.—Keeping field notes — plotting profile and cross-section — taking out quantities.

CURVES.

Theory and practice of laying out simple and compound circular curves.—Use of spirals.

ELEMENTS OF MINEROLOGY AND GEOLOGY.

BOTANY.

Elements of structural botany.—Distinguishing features of the forest flora of Canada.

DESCRIPTIONS for DEEDS and PRINCIPLES OF EVIDENCE.

Descriptions by metes and bounds.—Descriptions by sections or legal sub-divisions of the Dominion Lands System.—Descriptions by plans of survey.—Drawing up affidavits as to position of lost corners, &c., and the acceptance or rejection of evidence with regard thereto.

MANUALS OF SURVEY, DOMINION LANDS, and other ACTS.

The Manual of Survey of Dominion Lands, issued May 1, 1871, and subsequent issues, under instructions contained in which any portions of Manitoba may have been surveyed (as a large portion of the Province has been sub-divided in accord with issue of 1871, special attention is directed thereto).—Dominion Lands Act, R.S.C., Cap. 54, as amended, Secs. 8 to 21, and 121 to 139.—Real Property Act, R.S.M., Cap. 148, Secs. 56 to 64.—Registry Act, R.S.M., Cap. 150, Secs. 61 to 66.—Mines Act, R.S.M., Cap. 113, Secs. 7, 8, 23, 24, 25 and 37.—Municipal Act, R.S.M., Cap. 116, Secs. 515, 516, 557, 646, 658 to 665, 693 to 700, 772, 774, 775.—Plans Cancellation Act, R.S.M., Cap. 132.—Special Surveys' Act, R.S.M., Cap. 158.—Land Surveyors' Act, 4 and 5, Edward VII., Cap. 48, and any amendments to these Acts or Sections.

**Extracts from the Land Surveyors' Act 4 and 5,
Edward VII., Chap. 48.**

15. (1) There shall be a Board of Examiners for the examination of candidates for admission to study, and for commissions to practice as land surveyors, which Board shall consist of the secretary-treasurer and four other duly qualified members of the association.

16. (1) The said Board shall meet and hold regular examinations of candidates annually in Winnipeg, at such place as shall have been appointed by the council, on the Tuesday after the first Monday in January, unless such Tuesday be a legal holiday, in which case they shall meet on the next day thereafter not being a holiday, and may adjourn such meeting from time to time as they may deem necessary.

(2) Unless the council shall otherwise decide and give due public notice of such decision, the Board shall also hold regular examinations commencing on the Tuesday next after the first Monday in January, and on the first Monday in April of each year.

(3) Provided also that a special examination for commission to practice as a surveyor may be held at any time at the discretion of the Board on payment of a fee not exceeding fifty dollars in the case of one candidate, nor less than twenty-five dollars each in the case of more than one candidate, in addition to the regular fees prescribed by this Act.

19. (1) No person shall, except as hereinafter provided, be admitted as an apprentice or pupil with any Manitoba land surveyor unless he has previously passed an examination, satisfactory to the Board of Examiners, in penmanship and orthography; English grammar, including dictation and composition; Canadian and general geography; Canadian history; arithmetic, including square and cube roots; nature and use of logarithms; algebra, including quadratic equations; plane geometry, including the first four books of Euclid and deductions; plane trigonometry, including its practical application to measurement of heights and distances; mensuration of superficies; practical geometry, including use of ruling pen and scales; and has obtained a certificate, in the Form B in the schedule to this Act, of having passed such examination.

(2) Provided that an undergraduate of Manitoba University of the first year's standing may be admitted as an apprentice or pupil with any Manitoba land surveyor without passing the examination prescribed in sub-section 1; but such undergraduate shall file with his articles a certificate from the registrar of the university of such standing.

20. Each applicant for examination, previous to apprenticeship, shall give at least one month's written notice to the secretary-treasurer of his intention to present himself for examination, and shall pay to the secretary the fee by this Act provided for receiving and entering such notice, and before being examined shall pay the fees chargeable under this Act for such examination.

21. (1) No apprentice or pupil, except as hereinafter provided, shall be entitled to be examined for admission to practice as a Manitoba land surveyor unless he has previously served regularly and faithfully for and during the period of three years, under articles in writing, according to or to the effect as nearly as may be the form C in the schedule to this Act, duly executed before two witnesses, as pupil of a Manitoba land surveyor, duly admitted and practising his profession, and produces a certificate from such surveyor, in the Form D in the schedule to this Act; or, if for some good and valid reason such certificate cannot be produced, unless he proves to the satisfaction of the Board that he has so served; and such service shall include at least twelve months actual practice in the field; and shall also produce satisfactory certificates as to his character for probity and sobriety.

(2) Provided that, in the case of an apprentice whose term of service under articles as aforesaid shall be within one month or less of having been fully completed at the time of the holding of a final examination, such apprentice may, with the written consent of the surveyor with whom he is so serving, and if he shall have complied with the law in all other respects, be permitted to undergo such final examination, and if successful shall, on complying with the provisions of this Act, receive a commission to practice.

22. If a surveyor dies or leaves the Province or is suspended or dismissed, or disqualified, or ceases to practice, his apprentice may complete his term of apprenticeship, under articles as aforesaid, with another registered surveyor in actual practice.

23. A registered surveyor may, by an instrument in writing, transfer a pupil, with his own consent, to another registered surveyor in actual practice, with whom he may serve the remainder of his term of apprenticeship, but such pupil shall not be entitled to examination unless he produces the certificates of both surveyors in the Form D in the schedule to this Act, or in default thereof such evidence of service as shall be satisfactory to the Board.

24. No instrument in writing, under which an applicant for final examination claims to have served his apprenticeship, shall avail to

authorize the admission of the applicant, unless the instrument has been transmitted to the secretary of the Board, within two months after the date thereof, nor unless the fee in respect thereof, as prescribed by this Act, was at the same time paid to the secretary for receiving and filing the same; and the secretary shall acknowledge the receipt of all such instruments received by him, and shall carefully file and keep the same with the records of the Board.

25. Every person desiring to be examined by the Board as to his qualification to be admitted as a land surveyor, shall give at least one month's written notice to the secretary-treasurer previous to the time fixed for the meeting of the Board, and shall therewith pay the fee prescribed by this Act.

26. No person shall be admitted to practice as a land surveyor in and for Manitoba until he has attained the full age of twenty-one years and, except as hereinafter provided, has passed an examination satisfactory to the Board of Examiners in the following subjects, viz.: Geometry, including Euclid, books 1 to 4 and 6, with definitions of 5, and the principles of solid geometry; algebra, including simple and quadratic equations, ratio, proportion, progression and doctrine of exponents; trigonometry, plane and spherical; latitude and departure method of computing areas and determining courses; mensuration of areas and contents; lying out and dividing off land; descriptions by metes and bound for deeds and other documents; principles of evidence and drawing of affidavits; use and adjustments of surveying and levelling instruments, theory and practice of levelling, laying out circular and spiral curves; practical astronomy, including finding of time, latitude, longitude, azimuth, variation of the compass and drawing meridian lines; taking field notes and preparing plans; Dominion manuals of survey, and all the acts and laws relating to surveys and plans in Manitoba, including "Dominion Lands Act," "Mines Act," "Municipal Act," "Special Surveys Act," and the "Registry Act" and "Real Property Act," or any other acts which may hereafter be passed amending or in substitution thereof. The rudiments of geology and mineralogy; elements of botany and the forest flora of Canada; and the sufficiency of his surveying instruments, and shall produce satisfactory evidence as to character for probity and sobriety. He must be practically familiar with surveying operations and capable of intelligently reporting thereon, and shall perform such practical operations in the presence of the Board, and shall answer such questions on oath (which oath may be administered by any one of the examiners), as the Board or any member thereof may require, as to

his actual experience in the field and with regard to his instruments.

27A. Any person who has been duly qualified to practice as a land surveyor in any part of His Majesty's dominions, other than this Province, who shall satisfy the Board of Examiners that the qualifications as to terms of apprenticeship for so practicing in the said portion of His Majesty's dominions were sufficiently similar to those required in this Province, and shall produce to the Board his diplomas or certificates, shall not be required to serve any term of apprenticeship, and shall on passing an examination on the special laws governing surveys in the Province, and on complying with the other requirements of this Act, be admitted to practice as a Manitoba Land Surveyor.

27B. Any person who has been duly qualified to practice as a land surveyor in any part of His Majesty's dominions other than this Province, who shall not satisfy the Board of Examiners that the qualifications as to terms of apprenticeship for so practicing in the said portion of His Majesty's dominions were sufficiently similar to those required in this Province, and shall produce to the Board his diplomas or certificates, shall only be required to serve during such period, not exceeding three years, as the Board may consider requisite, after which such person shall on complying with the other requirements of this Act, have the right to undergo the examination for commission to practice, or such portions thereof as the Board may deem necessary, and shall if found qualified, be admitted to practice as a Manitoba Land Surveyor.

28. (1) The privilege of a shortened term of apprenticeship shall be accorded to graduates of the Royal Military College of Canada and to graduates in civil engineering of the University of McGill College of Montreal, the School of Practical Science of Toronto, the School of Mining at Kingston, and graduates of Manitoba University, who have taken first or second class honors in the special course in mathematics; and such graduates shall not be required to pass the preliminary examination hereinbefore prescribed for admission to apprenticeship with a land surveyor, but shall only be required to serve under articles with a practicing land surveyor, duly filed as required by Section 24 of this Act, during twelve successive months of actual practice, of which at least six months shall be actual practice in the field, after which on complying with the other requirements of this Act, he may undergo the examination for commission to practice prescribed by this Act.

(2) Any person who shall have followed a regular course of study in all the branches of education required by this Act for admission as a Manitoba land surveyor, through the regular sessions for at least two years, in any college or university in any of His Majesty's dominions other than Canada, where there may be organized a complete course of such instruction, theoretical and practical, and who has thereupon received from such college or university a certificate, diploma or degreeouching therefor, and shall produce his diplomas or certificates, and also satisfy the Board that such course of study was sufficiently similar to that prescribed by this Act, may not be obliged to pass the preliminary examination prescribed by this Act for admission to apprenticeship, and shall only be required to serve during such period not less than one year, as the Board may consider requisite, after which, and on complying with the other requirements of this Act, such person shall have the right to undergo the final examination prescribed by this Act, and to qualify for a commission to practice.

29. (1) Every person who shall pass the examinations and fulfil the other requirements of this Act, shall receive a commission from the association, according to Form E in the schedule to this Act, authorizing him to practice as a surveyor of lands in and for Manitoba, and before receiving said commission he shall, with two sufficient sureties, to the satisfaction of the Board, enter into a bond, in duplicate, in the Form F in the schedule to this Act, jointly and severally, in the sum of one thousand dollars, to His Majesty, his heirs and successors, conditioned for the due and faithful performance of the duties of his office, and shall take and subscribe the oath of allegiance, and the oath of office, as in Form G in the schedule of this Act, before the said Board or any member thereof deputed by the Board for that purpose, and who are hereby empowered to administer the same.

(2) The said oaths of allegiance and of office shall be deposited and the said commission shall be recorded in the office of the Provincial Secretary.

(3) The said bond shall be deposited and kept in the manner prescribed by law with regard to bonds given for like purposes by other public officers, and shall inure to the benefit of any person sustaining damage by breach of any condition thereof.

(4) The secretary-treasurer shall cause the name of every person who receives a commission to be published in the next ensuing issue of THE MANITOBA GAZETTE.

47. In addition to such other fees as are provided for under this Act, there shall be paid to the secretary-treasurer for the use of the Association:

(1) By each person duly authorized to practice as a land surveyor, on applying for registration under this Act, \$1;

(2) By each applicant for preliminary examination, with his notice thereof, \$2;

(3) By each applicant for preliminary examination before being examined, \$20;

(4) By each applicant for certificate of preliminary examination, \$2;

(5) By each apprentice on transmitting articles of indenture, after examination, \$5;

(6) By each apprentice with articles of indenture, without previous examination, \$10;

(7) By each apprentice with transfer of articles, or new articles for portion of term, \$2;

(8) By each applicant for final examination for commission, with notice, \$2;

(9) By each candidate for final examination for commission, before examination, \$50;

(10) By each candidate for a commission, \$50;

(11) By each applicant receiving a commission, being fee for official notice in THE MANITOBA GAZETTE, \$1.

FORM C (Section 21)—ARTICLES OF INDENTURE OF APPRENTICE.

These articles of agreement, made the _____ day of _____ one thousand nine hundred and _____ between A.B., of _____ Manitoba Land Surveyor, of the first part, and C.D., of _____ and E.F., son (or ward) the said C.D., of the second part, witness:—

That the said E.F., of his own free will, and by and with the consent of the said C.D., doth, by these presents, place and bind himself pupil to the said A.B., to serve him as such from the day of the date hereof, for and during and until the full end and term of three years from hance next ensuing and fully to be completed and ended. And the said C.D., doth hereby, for himself, his heirs, executors and administrators, covenant with the said A.B., his executors, administrators and assigns, that the said E.F. shall well and faithfully and diligently, according to the best and utmost of his power, serve the said A.B., as his pupil in the practice or profession of a Manitoba Land Surveyor, which he, the said A.B., now follows, and shall abide and continue with him from the day of the date hereof, for and during and unto the full end of the said term of three years; and that he, the said E.F., shall not at any time during such term, cancel, obliterate, injure, spoil, destroy, waste, embezzle,

spend or make away with any of the books, papers, writing, documents, maps, plans, models, drawings, instruments, field notes, moneys, chattels or other property of the said A.B., his executors, administrators or assigns, or of any of his employers; and that in case the said E.F. shall act contrary to the last mentioned covenant, or if the said A.B., his executors, administrators or assigns, shall sustain or suffer any loss or damage by the misbehaviour, neglect or improper conduct of the said E.F., the said C.D., his heirs, executors or administrators, will indemnify the said A.B., his executors, administrators or assigns, and make good or reimburse him or them the amount or value thereof: And further, that the said E.F. shall at all times, keep the secrets of the said A.B. in all matters and things relating to the said business and profession, and will at all times during the said term, be just, true and faithful, to the said A.B. in all matters and things, and from time to time, pay all moneys which he shall receive of, or belonging to, or by order of the said A.B. into his hands, and make and give the said A.B. true and fair accounts of all his acts and doings whatsoever in the said business or profession, without fraud or delay, when and so often as he shall thereto be required; and will readily and cheerfully obey and execute his lawful and reasonable commands, and shall not depart or absent himself from the service or employ of the said A.B. at any time during the said term without his consent first had and obtained, and shall from time to time, and at all times during the said term, conduct himself with all due diligence and with honesty and sobriety; And the said E.F. doth hereby, for himself covenant with the said A.B., his executors, administrators and assigns, that he, the said E.F., will truly, honestly and diligently serve the said A.B., at all times for and during the said term, as a faithful pupil ought to do in all things whatsoever in the manner above specified.

In consideration whereof and of of lawful money by the said C.D. to the said A.B. paid at or before the sealing and delivery of these presents (the receipt whereof is hereby acknowledged), the said A.B. for himself, his heirs, executors and administrators, doth covenant with the said C.D., his heirs, executors and administrators, that he, the said A.B., will accept and take the said E.F. as his pupil, and that he the said A.B., will, by the best ways and means he may or can, and to the utmost of his skill and knowledge, teach and instruct, or cause to be taught and instructed, the said E.F. in the course of study prescribed by "The Land Surveyors' Act" of Manitoba, in practical surveying operations, and in the use of instruments, and generally in the art, practice and profession of a Manitoba Land Surveyor, which he, the said A.B., doth now and at all times during said term shall use and practice, also will provide the said E.F. with all the necessary and reasonable expenses incurred in transacting or performing the business of the said A.B., and also will, at the expiration of the said term, give to the said E.F. the certificate of service required by "The Land Surveyors' Act," and use his best means and endeavors, at the request, cost and charges of the said C.D. and E.F. or either of them, to cause and procure him, the said E.F., to be examined before the Board of Examiners of candidates for commissions as Manitoba Land Surveyors; provided the said E.F. shall have well, faithfully and diligently served his intended pupilage or apprenticeship;

And for the true performance of all and every the covenants and agreements aforesaid, according to the true intent and meaning thereof, each of them, the said A.B. and C.D. doth bind himself, his heirs, executors and administrators, unto the other, his heirs, executors, administrators and assigns, in the penal sum of hundred dollars, firmly by these presents;

In witness whereof, the parties aforesaid have hereunto set their hands and seals, the day and year first above written.

Signed, sealed and delivered in the presence of

G H.	}	A.B.	(L.S.)
J.K.		C.D.	(L.S.)
		E.F.	(L.S.)

NOTE.—In case the apprentice is over the age of twenty-one years, the parent or guardian shall not be required to be a party to these articles.

FORM D (Section 21)—SURVEYORS' CERTIFICATE OF SERVICE.

I, A.B., of _____ Manitoba Land Surveyor, do hereby certify and declare that C.D., of _____ has regularly, faithfully and bona-fide served as my apprentice, under "The Manitoba Land Surveyors' Act," from the _____ day of _____ 19____ to the _____ day of _____ 19____. That during said term he has been engaged with me in the field on the following surveys, that is to say:— from the _____ day of _____ to the _____ day of _____ and from the _____ day of _____ to the _____ day of _____ (as may be), and that the said C.D. has always conducted himself with all due diligence, honesty and sobriety during said term of apprenticeship.

Given under my hand at _____ this _____ day of _____ 19____ A.B.,
M.L.S.

FORM F (Section 29, sub-section 1)—SURVEYORS' BOND.

Know all men by these presents, that we, A.B., of _____ and E.F., of _____ are held firmly and bound jointly and severally to His Majesty the King, in the penal sum of one thousand dollars to be well and truly paid to His Majesty, his heirs and successors, for which payment, to be well and truly made, we bind ourselves, our heirs, executors and administrators, firmly by these presents.

Sealed with our respective seals and dated the _____ day of _____ 19____

The condition of this obligation is such that is the above bounden, A.F., shall well and faithfully execute, fulfill and perform all the duties of and pertaining to the office of Manitoba Land Surveyor, to which he has been commissioned, and shall not in any manner misconduct himself in the said office to the damage of any person being a party to or interested in any legal or lawful proceeding carried, arising in or appertaining to said office or the duties thereof.

Then this obligation to be null and void, but otherwise to be and remain in full force and effect.

Signed and sealed in the presence of

A.B. (L.S.)
C.D. (L.S.)
E.F. (L.S.)

AFFIDAVIT OF JUSTIFICATION OF SURETIES IN ABOVE BOND.

Province of Manitoba We, C.D., of _____ and E.F., of _____
Judicial District (giving name, residence and calling)

To Wit: _____ the sureties mentioned in the foregoing (or within) bond or covenant of and for one A.B., as Manitoba Land Surveyor, make oath and say as follows:—

I, the said C.D., for myself, and I, the said E.F., for myself, say, that I am seized and possessed to my own use in real and personal estate, situate and held within the Province of Manitoba, of the actual value of one thousand dollars, over and above all liens and encumbrances affecting the same and above all exemptions to which I am by law entitled and after payment of all my just debts.

Taken and sworn before me at _____ this _____ day of _____ 19____ C.D.
E.F.

A Justice of the Peace, etc. (or as the case may be.)

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3" x 5"

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3⅜" x 5"
3⅜" x 5⅜"
3⅜" x 6"
3½" x 4⅝"
3¾" x 8¾"

4" x 6"
4" x 9"
5" x 8"
6" x 9"
7⅜" x 3½" (IBM)
8½" x 11"

9" x 12"
9½" x 6"
10" x 9¾"
11⅝" x 14¾"
12⅜" x 12¼"
(RECORD ALBUM)
12¾" x 17¾"

